

is the nadir of thise 3 houses the bygin-
ning of the 3 houses that folwen. And for
the more declaracioun, lo here thy figure.

38. To finde the lyne merydional to dwelle
fix in any certein place.
(Ad inveniendum lineam meridianalem per
subtiles operaciones.)

AK a rond plate of metal; for
warping, the brodere the bet-
tre; & make therupon a just
compas, a lite within the bor-
dure; and ley this runde plate
upon an evene grond, or on
an evene ston, or on an evene stok fix in the
gronde; and ley it even by a level. And in
centre of the compas stike an evene pin or
a wyr upright; the smallere the betere. Set
thy pin by a plom/rewle evene upright; &
let this pin be no lenger than a quarter of
the diametre of thy compas, fro the cen-
tre. And waite bisily, aboute 10 or 11 of the
clokke and whan the sonne shyneth, whan
the shadwe of the pin entreth anything
within the cercle of thy plate an heermele,
and mark ther a prikke with inke. Abyde
thanne stille waiting on the sonne after 1
of the klokke, til that the schadwe of the
wyr or of the pin passe onything out of the
cercle of the compas, be it never so lyte;
and set ther another prikke of inke. Take
than a compas, and mesure evene the mid-
del bytwix bothe prikkes; and set ther a
prikke. Take thanne a rewle, and draw a
stryke, evene a lyne fro the pin unto the mid-
del prikke; & tak ther thy lyne meridional
for everemo; as in that same place. And yif
thow drawe a cros/lyne over thwart the
compas, justly over the lyne meridional,
than hastow est and west and south; and,
par consequence, than the nadir of the
south lyne is the north lyne. And for more
declaracioun, lo here thy figure.

39. Description of the meridional lyne, of
longitudes, and latitudes of citees and
townes from on to another of clymatz.

THIS lyne meridional is but
a maner description of lyne
imagined, that passeth up-
on the poles of this world &
by the senith of oure heved.
And hit is cleped the lyne
meridional; for in what place that anyman/
er man is at any tyme of the yeer, whan that
the sonne by moeving of the firmament
cometh to his verrey meridian place, than
is hit verrey midday, that we clepen oure
noon, as to thilke man; and therefore is it
cleped the lyne of midday. And nota, for
evermo, of 2 citees or of 2 townes, of whiche
that o toun aprocheth more toward the est
than doth that other toun, truste wel that
thilke townes han diverse meridians. Nota
also, that the arch of the equinoxial, that

is conteyned or bounded bytwix the 2
meridians, is cleped the longitude of the
toun. And yif so be that two townes have
the same longitude, or oon meridian, than is the
distance of hem bothe ylyke fer fro the est;
and the contrarie. And in this manere they
chaungen her almikanteras; for the en-
te of the pool and the distance of
the sonne. The longitude of a clymat is a
lyne imagined fro est to west, ylyke dis-
tant bytwene them alle. The latitude of a
clymat is a lyne imagined from north to
south the space of the erthe, fro the by-
ginning of the firste clymat unto the verrey
end of the same clymat, evene directe a-
gayns the pole artik. Thus seyn some au-
tours; and somme of hem seyn that yif
men clepen the latitude, thaimene the arch
twix the senith & the equinoxial. Thanne
sey they that the distance fro the equi-
noxial unto the ende of a clymat, evene a-
gayns the pole artyk, is the latitude of a
clymat for sothe. And for more declara-
cioun, lo here thy figure.

40. To knowe with which degree of the
zodiak that any planete assendith on the
orizonte, whether so that his latitude be
north or south.

KNOWE by thyn almenak the
degree of the ecliptik of any
signe in which that the planete
is rekened for to be, and that is
cleped the degree of his longi-
tude; and knowe also the de-
gree of his latitude fro the ecliptik, north
or south. And by thise samples folwinge
in special, maystow wirke forsothe in every
signe of the zodiak. The degree of the lon-
gitude, par aventure, of Venus or of an-
other planete, was 6 of Capricorne, & the
latitude of him was northward 2 degrees
fro the ecliptik lyne. I tok a subtil compas,
and cleped that oon poynt of my compas
H, and that other poynt f. Than tok I the
point of H, and set it in the ecliptik lyne
evene in my zodiak, in the degree of the
longitude of Venus, that is to seyn, in the
6 degree of Capricorne; and thanne sette I
the point of f upward in the same signe,
bycause that the latitude was north, upon
the latitude of Venus, that is to seyn, in
the 6 degree fro the heved of Capricorne;
and thus have I 2 degrees bytwix my two
prikkes. Than leide I down softly my
compas, and sette the degree of the longi-
tude upon the orizonte; tho tok I & weerde
my label in maner of a peyre tables to res-
ceyve distinctly the prikkes of my compas.
Tho tok I this forseide label, and leide it
fix over the degree of my longitude; tho
tok I up my compas, and sette the point of

H in the wex on my label, as evene as I coude
geese over the ecliptik lyne, in the ende of
the longitude; & sette the point of f end-
lang in my label upon the space of the lati-
tude, inwarde and over the zodiak, that is
to seyn, northward fro the ecliptik. Than
leide I down my compas, and lokede wel in
the wey upon the prikke of H and of f; tho
turned I my riet til that the prikke of f sat
upon the orizonte; than saw I wel that the
body of Venus, in hir latitude of 2 degrees
septentrionalis, assended, in the ende of
the 6 degree, in the heved of Capricorne.
And nota, that in the same maner maistow
wirke with any latitude septentrional in alle
signes; but sothly the latitude meridional
of a planete in Capricorne may not be take,
bycause of the litel space bytwix the eclip-
tik and the bordure of the Astrolabe; but
sothly, in alle other signes it may. Also the
degree, par aventure, of Juppiter or of a-
nother planete, was in the first degree of
Pisces in longitude, and his latitude was
3 degrees meridional; tho tok I the point
of H, and sette it in the first degree of
Pisces on the ecliptik, and thanne sette I
the point of f downward in the same signe,
bycause that the latitude was south 3 de-
grees, that is to seyn, fro the heved of
Pisces; and thus have I 3 degrees bytwix
bothe prikkes; thanne sette I the degree
of the longitude upon the orizonte. Tho
tok I my label, and leide it fix upon the de-
gree of the longitude; tho sette I the point
of H on my label, evene over the ecliptik
lyne, in the ende evene of the degree of the
longitude, & sette the point of f endlang
in my label the space of 3 degrees of the lati-
tude fro the zodiak, this is to seyn, south-
ward fro the ecliptik, toward the bordure;
and turned my riet til the prikke of f sat
upon the orizonte; thanne saw I wel that
the body of Juppiter, in his latitude of 3
degrees meridional, ascended with 14 de-
grees of Pisces in horoscopo. And in this
maner maistow wirke with any latitude
meridional, as I first seide, save in Capri-
corne. And yif thou wolt pleye this craft
with the arysing of the mone, loke thou
reke wel hir cours houre by houre; for she
ne dwelleth nat in a degree of hir longitude
but a litel while, as thou wel knowest; but
natheles, yif thou rekne hir verreye moev-
ing by thy tables houre after houre, thou
shalt do wel ynow.

Explicit tractatus de Conclusionibus As-
trolabii, compilatus per Galfridum Chau-
diers ad filium suum Lodewicum, scola-
rem tunc temporis Oxonie, ac sub tutela
illius nobilissimi philosophi Magistri N.
Strode, etc.

Supplementary Propositions.

41. Umbra Recta.

IF IT SO BE that thou wilt
werke by umbra recta, and
thou may come to the bas of
the toure, in this maner thou
schalt werke. Tak the alti-
tude of the tour by bothe
holes, so that thy rewle ligge even in a
poynt. Ensample as thus: I see him thorw
at the poynt of 4; then mete I the space
between me and the tour, and I finde it 20
feet; than beholde I how 4 is to 12, right so
is the space betwix thee & the tour to the
altitude of the tour. for 4 is the thridde
part of 12, so is the space between thee &
the tour the thridde part of the altitude of
the tour; than thryes 20 feet is the heyghte
of the tour, with adding of thyn owne per-
sone to thyn eye. And this rewle is so gen-
eral in umbra recta, fro the poynt of oon
to 12. And yif thy rewle falle upon 5, than
is 5 12 partyes of the heyght the space be-
tween thee and the toure; with adding of
thyn owne heyght.

42. Umbra Versa.

ANOTHER maner of werk-
inge, by umbra versa. Yif so
be that thou may nat come
to the bas of the tour, I see
him thorw the nombre of 1;
I sette ther a prikke at my
fote; than go I neer to the tour, and I see
him thorw at the poynt of 2, and there I
sette another prikke; and I beholde how 1
hath him to 12, and ther finde I that it hath
him twelfe sythes; than beholde I how 2
hath him to 12, and thou shalt finde it sexe
sythes; than thou shalt finde that as 12 a-
bove 6 is the nombre of 6, right so is the
space between thy two prikkes the space of
6 tymes thyn altitude. And note, that at the
ferste altitude of 1, thou settest a prikke;
and afterward, whan thou seest him at 2,
ther thou settest another prikke; than thou
findest between two prikkys 60 feet; than
thou shalt finde that 10 is the 6 party of
60. And then is 10 feet the altitude of the
tour. for other poyntis, yif it fille in umbra
versa, as thus: I sette caas it fill upon 2,
& at the secunde upon 3; than schalt thou
finde that 2 is 6 partyes of 12; & 3 is 4 par-
tyes of 12; than passeth 6 4, by nombre
of 2; so is the space between two prikkes
twyes the heyghte of the tour. And yif the
differens were thryes, than shulde it be
three tymes; and thus mayst thou werke
fro 2 to 12; and yif it be 4, 4 tymes; or 5, 5
tymes; et sic de ceteris.